

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639953

Luminaire Tested: GWS-SA5C-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19473 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

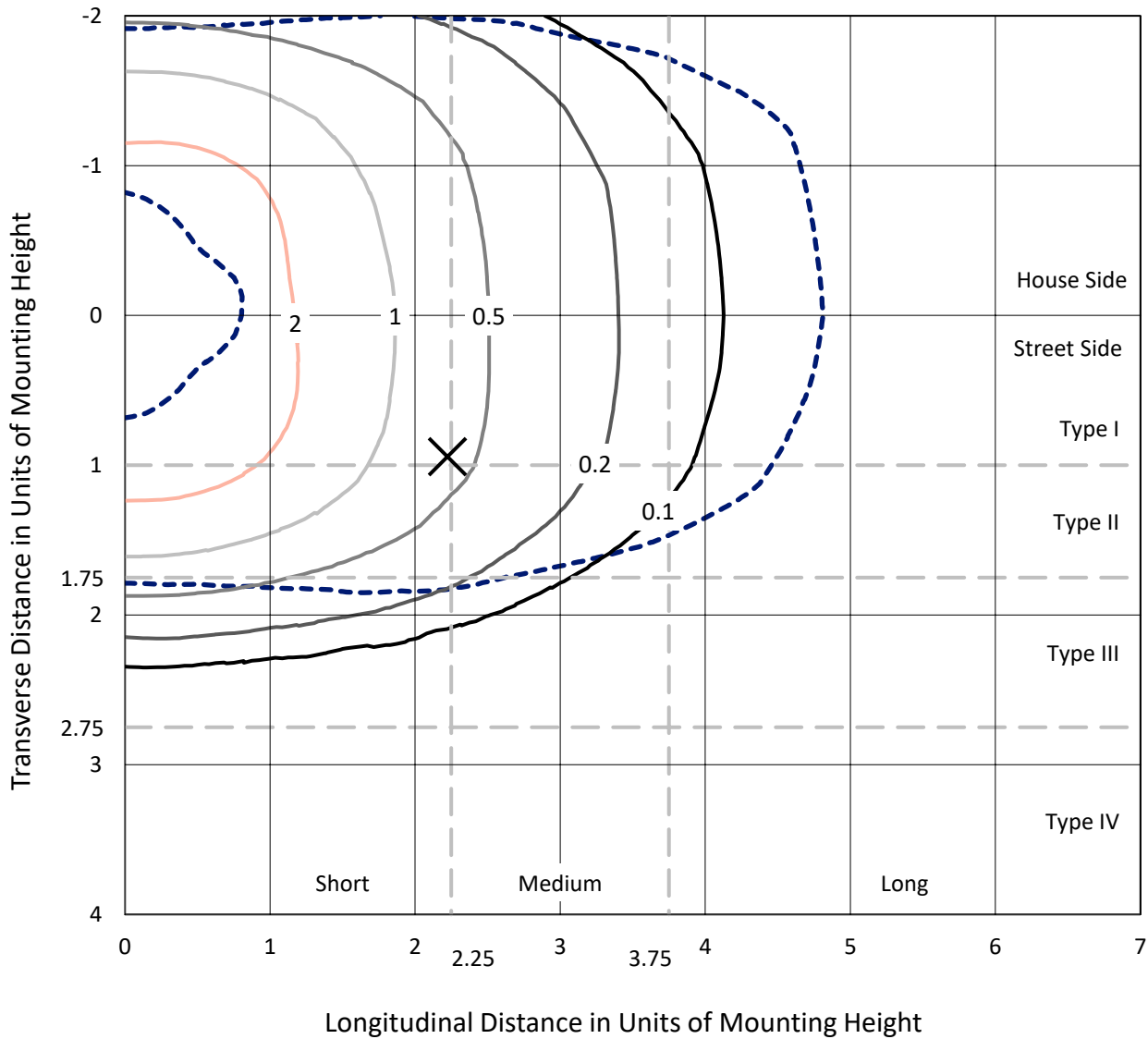
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639953
 CATALOG NUMBER: GWS-SA5C-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

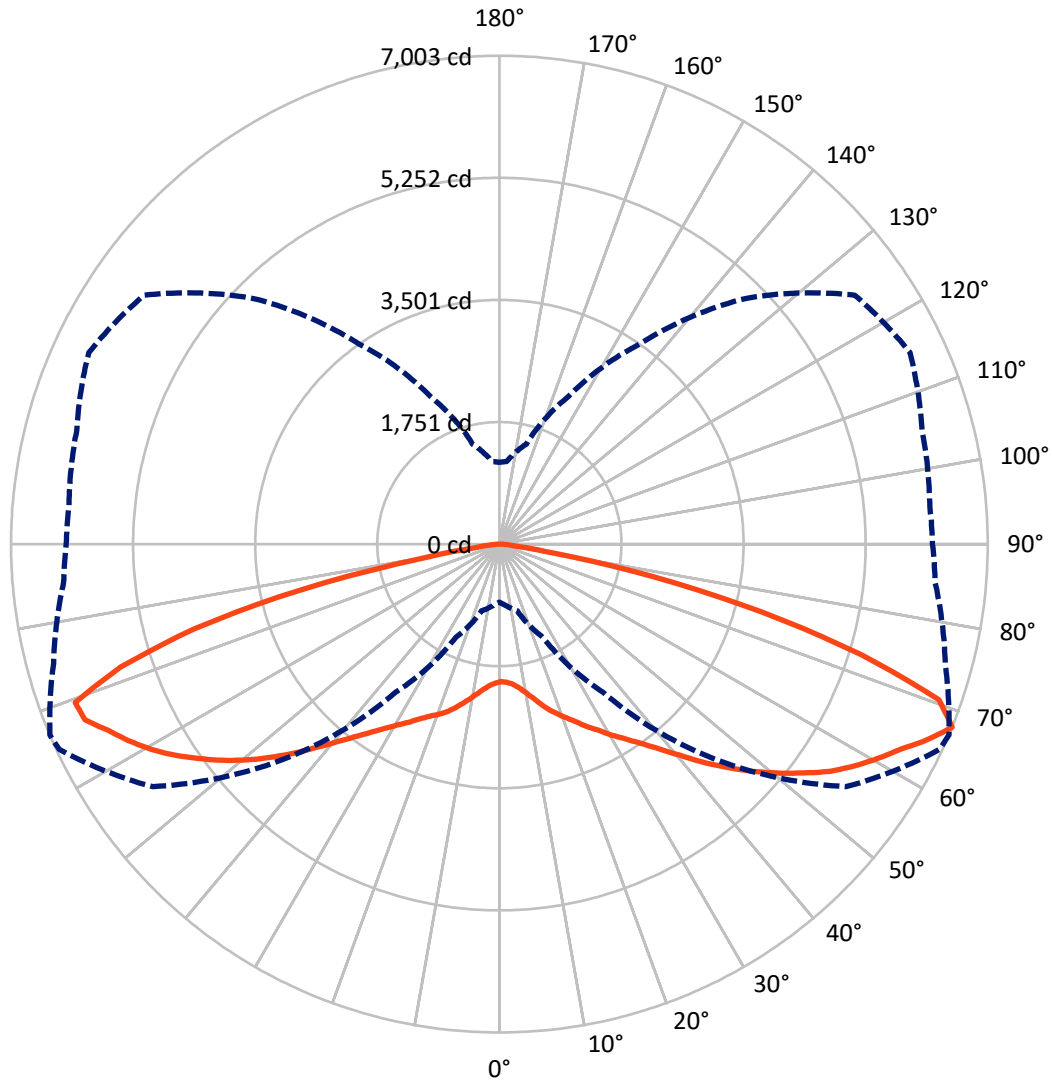
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

REPORT NUMBER: P639953
CATALOG NUMBER: GWS-SA5C-830-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA5C-830-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9629.0	0.0	9629.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9844.0	0.0	9844.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	19473.0	0.0	19473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	1.0
10°-20°	653.6	3.4
20°-30°	1282.3	6.6
30°-40°	2184.6	11.2
40°-50°	3508.0	18.0
50°-60°	4766.6	24.5
60°-70°	4559.6	23.4
70°-80°	2167.8	11.1
80°-90°	157.1	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19473.0	100.0
0°-180°	19473.0	100.0

Coefficient of Utilization



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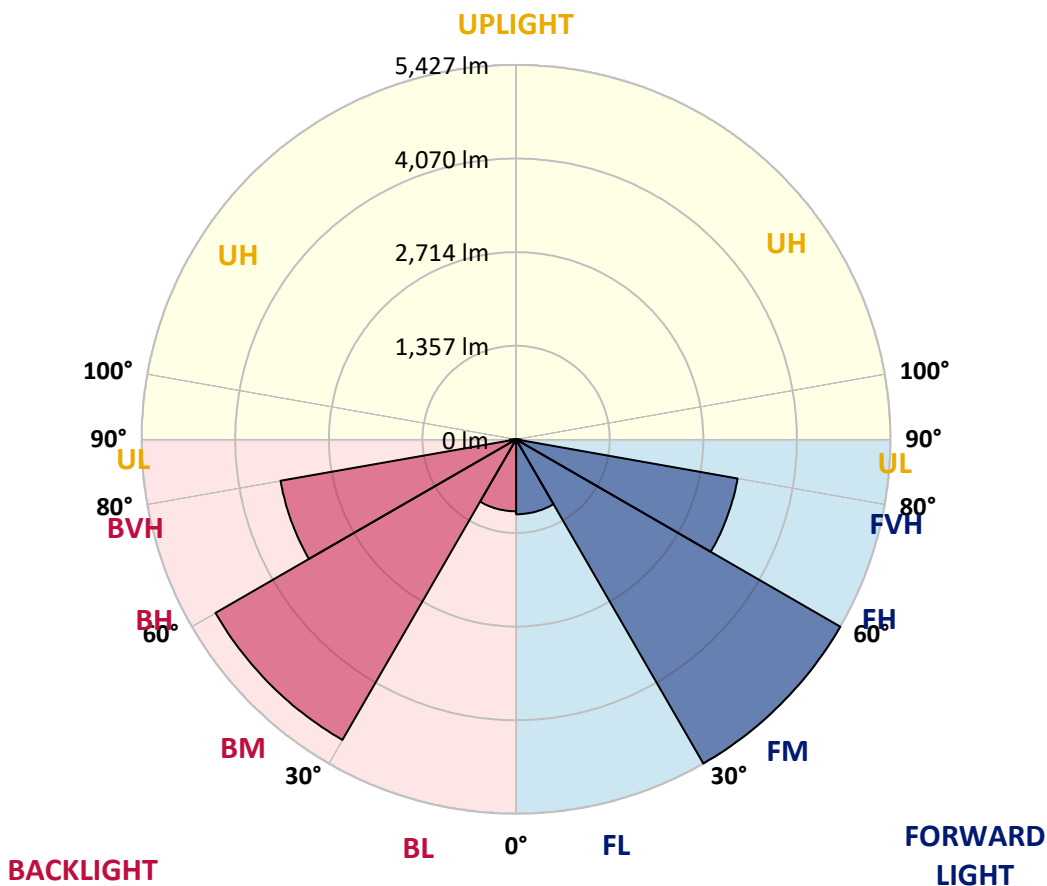
CATALOG NUMBER: GWS-SA5C-830-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.8	5.6			
FM (30°-60°)	5427.3	27.9			
FH (60°-80°)	3260.3	16.7			G2/5000
FVH (80°-90°)	70.6	0.4			G1/100
BL (0°-30°)	1043.5	5.4	B3/2500		
BM (30°-60°)	5031.9	25.8	B4/8500		
BH (60°-80°)	3467.1	17.8	B4/5000		G4/5000
BVH (80°-90°)	86.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P639953
 CATALOG NUMBER: GWS-SA5C-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7
2.5°	1931.1	1933.8	1937.8	1946.0	1954.1	1966.3	1978.5	1977.2	1982.6	1986.7	1990.7
5°	1920.2	1922.9	1929.7	1940.6	1952.8	1973.1	1998.9	2009.7	2017.9	2032.8	2046.3
7.5°	1943.3	1948.7	1958.2	1973.1	1992.1	2017.9	2053.1	2072.1	2084.3	2111.4	2134.5
10°	1974.5	1981.2	2000.2	2028.7	2057.2	2096.5	2141.3	2169.7	2177.9	2213.1	2256.5
12.5°	2004.3	2012.4	2043.6	2095.2	2146.7	2199.6	2252.5	2287.7	2290.4	2337.9	2386.7
15°	2051.8	2058.5	2100.6	2167.0	2245.7	2318.9	2384.0	2408.4	2419.3	2453.2	2514.2
17.5°	2156.2	2164.3	2218.6	2290.4	2373.2	2450.4	2515.5	2535.9	2535.9	2564.4	2614.5
20°	2268.7	2276.9	2348.7	2441.0	2541.3	2620.0	2670.1	2651.1	2644.4	2652.5	2687.8
22.5°	2394.8	2409.8	2478.9	2586.1	2709.5	2805.7	2831.5	2774.6	2755.6	2736.6	2744.7
25°	2556.2	2573.9	2641.7	2755.6	2876.3	2978.0	2992.9	2904.7	2893.9	2827.4	2803.0
27.5°	2742.0	2755.6	2839.6	2952.2	3064.8	3150.2	3166.5	3058.0	3021.4	2929.1	2872.2
30°	2982.0	2994.2	3067.5	3178.7	3276.3	3336.0	3356.3	3207.1	3178.7	3037.6	2949.5
32.5°	3243.8	3249.2	3323.8	3430.9	3517.7	3574.6	3546.2	3372.6	3330.5	3171.9	3051.2
35°	3543.5	3543.5	3639.7	3726.5	3795.7	3812.0	3757.7	3559.7	3510.9	3338.7	3188.2
37.5°	3837.7	3845.9	3935.4	4038.4	4099.4	4096.7	3997.7	3780.8	3725.2	3538.0	3371.2
40°	4156.4	4174.0	4263.5	4378.8	4437.1	4429.0	4277.1	4035.7	3978.8	3757.7	3595.0
42.5°	4449.3	4477.8	4582.2	4700.2	4763.9	4758.5	4599.8	4328.6	4273.0	4023.5	3860.8
45°	4682.6	4712.4	4842.6	5006.7	5108.4	5098.9	4938.9	4632.4	4564.6	4302.9	4123.9
47.5°	4887.3	4918.5	5063.6	5237.2	5398.6	5414.9	5268.4	4938.9	4867.0	4602.6	4400.5
50°	5044.6	5059.6	5222.3	5412.1	5599.3	5690.1	5562.7	5246.7	5159.9	4898.2	4670.4
52.5°	5032.4	5052.8	5253.5	5511.1	5762.0	5911.2	5823.0	5536.9	5452.8	5168.0	4945.6
55°	4784.3	4804.6	5043.3	5418.9	5852.9	6072.6	6063.1	5813.5	5752.5	5443.3	5231.8
57.5°	4422.2	4466.9	4704.3	5109.7	5733.5	6201.4	6239.4	6065.8	6002.0	5713.2	5515.2
60°	3774.0	3833.7	4107.6	4633.7	5351.1	6158.0	6427.9	6278.7	6239.4	5964.1	5771.5
62.5°	2742.0	2785.4	3150.2	3840.4	4784.3	5848.8	6586.5	6498.4	6468.5	6189.2	6003.4
65°	1642.2	1741.2	2034.1	2716.2	3859.4	5265.7	6499.7	6785.9	6754.7	6421.1	6201.4
67.5°	831.3	876.0	991.3	1472.7	2595.5	4357.1	6064.4	6964.9	7002.8	6619.1	6271.9
70°	515.3	527.5	560.1	726.9	1296.4	2862.7	4959.2	6498.4	6684.2	6587.9	6088.8
72.5°	413.6	416.3	421.7	452.9	622.4	1338.5	3135.3	5089.4	5424.3	6152.6	5827.1
75°	343.1	344.4	345.8	355.3	387.8	546.5	1525.6	3497.3	3889.3	5229.1	5402.6
77.5°	275.3	268.5	273.9	278.0	286.1	305.1	526.2	1866.0	2263.3	3432.3	4178.1
80°	179.0	176.3	187.1	191.2	199.3	211.5	280.7	633.3	768.9	1249.0	1329.0
82.5°	96.3	90.9	113.9	109.8	113.9	123.4	165.4	231.9	260.4	377.0	318.7
85°	29.8	29.8	31.2	36.6	44.8	43.4	71.9	113.9	126.1	161.4	119.3
87.5°	5.4	5.4	5.4	5.4	5.4	6.8	14.9	23.1	31.2	55.6	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: GWS-SA5C-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7	1971.7
2.5°	1998.9	1986.7	1993.4	1997.5	1996.2	1993.4	1979.9	1977.2	1970.4	1959.5	1956.8
5°	2058.5	2045.0	2046.3	2042.3	2028.7	2011.1	1981.2	1966.3	1954.1	1940.6	1939.2
7.5°	2152.1	2137.2	2133.1	2114.1	2076.2	2035.5	1988.0	1960.9	1940.6	1922.9	1920.2
10°	2271.4	2256.5	2243.0	2198.2	2135.8	2081.6	2019.2	1979.9	1950.1	1928.4	1924.3
12.5°	2404.3	2392.1	2358.2	2293.1	2218.6	2154.8	2091.1	2042.3	1998.9	1966.3	1962.3
15°	2552.2	2525.0	2473.5	2389.4	2318.9	2267.4	2190.1	2123.6	2054.5	2011.1	2001.6
17.5°	2655.2	2632.2	2571.1	2489.8	2434.2	2389.4	2298.6	2203.6	2110.1	2046.3	2032.8
20°	2728.4	2704.0	2634.9	2575.2	2557.6	2519.6	2413.8	2304.0	2195.5	2116.9	2099.2
22.5°	2781.3	2755.6	2685.1	2655.2	2679.6	2672.8	2569.8	2445.0	2316.2	2222.6	2200.9
25°	2831.5	2807.1	2744.7	2755.6	2820.7	2841.0	2729.8	2584.7	2438.2	2328.4	2302.6
27.5°	2879.0	2847.8	2819.3	2879.0	2971.2	3009.2	2891.2	2727.1	2568.4	2455.9	2435.5
30°	2952.2	2915.6	2911.5	2998.3	3144.8	3177.3	3047.1	2883.0	2725.7	2611.8	2586.1
32.5°	3044.4	3010.5	3013.2	3143.4	3312.9	3340.0	3228.8	3075.6	2918.3	2804.4	2769.1
35°	3169.2	3127.1	3150.2	3310.2	3481.1	3531.2	3441.7	3314.3	3161.0	3044.4	3005.1
37.5°	3341.4	3280.4	3327.8	3496.0	3668.2	3742.8	3673.6	3578.7	3426.8	3308.9	3272.2
40°	3561.1	3510.9	3529.9	3715.7	3893.3	3982.8	3939.4	3845.9	3695.3	3571.9	3529.9
42.5°	3821.5	3771.3	3764.5	3962.5	4140.1	4275.7	4233.7	4148.3	3992.3	3851.3	3810.6
45°	4076.4	4030.3	4039.8	4241.8	4441.2	4589.0	4547.0	4446.6	4277.1	4114.4	4081.8
47.5°	4342.2	4304.2	4312.4	4526.6	4746.3	4894.1	4841.2	4719.2	4521.2	4347.6	4308.3
50°	4614.8	4571.4	4583.6	4808.7	5046.0	5185.7	5104.3	4924.0	4705.6	4536.1	4502.2
52.5°	4886.0	4834.4	4865.6	5078.5	5324.0	5435.2	5284.7	5066.3	4854.8	4686.6	4648.7
55°	5197.9	5143.6	5109.7	5337.6	5580.3	5626.4	5420.3	5165.3	4914.5	4723.2	4700.2
57.5°	5482.7	5436.6	5372.8	5600.6	5779.6	5745.7	5524.7	5138.2	4769.4	4523.9	4491.4
60°	5737.6	5698.3	5642.7	5836.6	5918.0	5842.0	5440.6	4816.8	4411.3	4155.0	4140.1
62.5°	5972.2	5930.2	5878.6	6044.1	6033.2	5856.9	5058.2	4323.2	3780.8	3505.5	3481.1
65°	6158.0	6120.0	6105.1	6235.3	6217.7	5565.4	4462.9	3515.0	2762.3	2451.8	2442.3
67.5°	6210.9	6196.0	6276.0	6497.0	6221.7	4979.5	3500.1	2331.1	1483.6	1189.3	1171.7
70°	6012.9	6011.5	6240.7	6556.7	5657.6	3803.8	2065.3	1051.0	745.8	661.8	650.9
72.5°	5755.2	5751.2	5932.9	5656.2	4195.7	2081.6	869.3	562.8	466.5	443.4	443.4
75°	5332.1	5321.3	5458.2	4302.9	2359.6	783.8	461.1	386.5	366.1	362.1	362.1
77.5°	4346.3	4255.4	4039.8	2659.3	823.1	385.1	305.1	303.8	291.6	290.2	290.2
80°	1429.3	1429.3	1661.2	1014.4	363.4	237.3	215.6	226.5	214.3	206.1	204.8
82.5°	233.2	321.4	457.0	290.2	196.6	147.8	132.9	141.0	147.8	118.0	118.0
85°	92.2	120.7	176.3	135.6	90.9	59.7	63.7	70.5	62.4	54.2	52.9
87.5°	35.3	43.4	62.4	32.5	19.0	10.8	6.8	6.8	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)